

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An access port comprising:

a housing with a first and second openings opening formed therein; and
a septum mounted within the housing sealing the first opening, the septum including an operative surface covering the first opening and self-sealing after penetration by a needle and an attachment portion for securing the septum to the housing, the attachment portion including an annular surface extending radially beyond a periphery of the operative surface and separated from the operative surface in a direction substantially perpendicular to the annular surface, the annular surface being coupled to the operative surface by a chamfer which, when the septum is mounted within the housing, is not coplanar with the annular surface and is subject to a force oriented substantially perpendicularly with respect to the annular surface, the chamfered portion redirecting a portion of the force to compress the operative surface in a direction substantially parallel to the annular surface, wherein the chamfer is not perpendicular to the operative surface and the annular surface, and wherein the second opening is adapted to connect to a catheter and is substantially perpendicular to the first opening.

2. (Cancelled)

3. (Original) The access port according to claim 1, wherein a base of the housing forms a septum seat and a cover of the housing secures the septum on the seat so that the attachment portion is

compressed therebetween.

4. (Previously Presented) The access port according to claim 1, wherein the chamfer comprises at least one surface that forms an angle of between 0° and 90° relative to the operative surface and the annular surface.

5. (Original) The access port according to claim 4, wherein the at least one angled surface forms a 45 degree angle to the operative surface.

6. (Original) The access port according to claim 1, wherein the chamfer comprises a stepped surface extending away from the operative surface.

7. (Original) The access port according to claim 1, wherein the chamfer comprises a curved fillet extending away from the operative surface.

8. (Original) The access port according to claim 7, wherein the curved fillet has a substantially constant radius of curvature.

9. (Previously Presented) The access port according to claim 1, wherein the annular surface abuts a septum seat of the housing.

10. (Original) The access port according to claim 1, wherein the operative surface comprises a substantially planar membrane overlying the first opening.

11. (Original) The access port according to claim 1, wherein the operative surface comprises a membrane which, when unconstrained has a dimension greater than a corresponding dimension of the first opening so that, when placed within the first opening the operative surface is compressed thereby.

12. (Currently Amended) A septum for an access port, comprising:
an attachment portion adapted to abut a septum seat of the access port, the attachment portion including an annular surface;
an operative surface adapted to permit penetration by a needle and resealing itself after removal of the needle, a periphery of the operative surface being radially within a periphery of the annular surface; and
a chamfered portion providing a transition between the attachment portion and the operative surface, the chamfered portion re-directing a component of a force applied to the chamfered portion to compress the operative surface, wherein the chamfered portion is not coplanar with the annular surface and is not perpendicular to the operative surface and the annular surface, and wherein the septum is a unitary body.

13. (Original) The septum according to claim 12, wherein the operative surface is sized to substantially overlie an opening of the access port.

14. (Original) The septum according to claim 12, wherein the chamfer portion is adapted to apply to the operative surface a radially compressive component of a force applied substantially

perpendicularly thereto by assembly of the access port.

15. (Original) The septum according to claim 12, wherein the chamfered portion comprises a fillet joining the operative surface to the attachment portion.

16. (Previously Presented) The septum according to claim 12, wherein the chamfered portion comprises an angled surface that forms an angle of between 0° and 90° joining the operative surface to the attachment portion.

17. (Original) The septum according to claim 12, wherein the chamfered portion comprises a stepped surface joining the operative surface to the attachment portion.

18. (Original) The septum according to claim 12, wherein the operative surface is formed of a flexible polymeric material.